

ABSTRACT OF THE DISCLOSURE

A spread spectrum radio frequency communication system includes a Forward Error Correction (FEC) algorithm to encode digital data to provide a plurality of symbol groups, the FEC algorithm using a Reed Solomon FEC code, an interleaving algorithm to map each one of the plurality of symbol groups into a corresponding one of a plurality of coherent subbands, and a Walsh encoder to encode each one of the plurality of symbol groups.

1. A spread spectrum radio frequency communication system, comprising:
a. a Forward Error Correction (FEC) algorithm to encode digital data to provide a plurality of symbol groups, the FEC algorithm using a Reed Solomon FEC code;
b. an interleaving algorithm to map each one of the plurality of symbol groups into a corresponding one of a plurality of coherent subbands;
c. a Walsh encoder to encode each one of the plurality of symbol groups.